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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/921,446	08/01/2001	Denise L. Draper	337298001US1	6124

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PERKINS COIE LLP
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EXAMINER

TO, BAOQUOC N

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 09/25/2003

9

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/921,446

Applicant(s)

DRAPER ET AL.

Examiner

Baoquoc N To

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 9-32 is/are pending in the application.
- 4a) Of the above claim(s) 1-8 ~~is/are withdrawn from consideration.~~ *cancelled.*
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 9-32 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). ____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 6) ☐ Other:

DETAILED ACTION

1. Claims 1-8 are cancelled and claims 9-32 are newly added on the preliminary amendment filed on 05/05/02. Claims 9-32 are presented for examination.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 02/21/02. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 9-20 and 24-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Suver (US. Patent No. 6,016,497).

Regarding on claims 9, 15 and 24, Suver teaches a computer-readable medium containing a data structure, the data structure having rows and columns, the data structure comprising:

A type column containing a type value for each row (when a row is stored, the type value of a row identifying a row type (text or number) (fig. 9), each type value

Art Unit: 2172

identifying the columns of that row (column type of text or number for that row) (fig. 9) ;
and

A columns of a row that includes a nested data structure (the structure 603, includes three entries different phone numbers, one r work and two for Home, the two for HOME being further embedded as further nest collection) (col. 11, lines 51-55), the nested data structure including sub-rows and sub-columns (sub-row), one of the sub-column (sub-columns) (col. 11, lines 48-50) being a type sub-column containing a type value for each sub-row, the type value of a sub-row identifying a sub-row type (text or number type) (fig. 9), each type value for a sub-row identifying the sub-columns of that sub-row (phone type) (fig. 9).

Regarding on claims 10, 16 and 25, Suver teaches a sub-column of a sub-row of the nested data structure includes a further nested data structure (sub-sub phone structure) (col. 10, lines 16-18 and col. 11, lines 51-55).

Regarding on claims 11, 17 and 26, Suver teaches the data structure is nested conditional relation data structure (col. 18, lines 40-48).

Regarding on claims 12, 18 and 27, Suver teaches at least two rows of the data structure contain different type values in the type column (each record identifies different addresses from the same person) (col. 9, lines 50-57).

Regarding on claims 13, 19 and 28, Suver teaches at least two sub-rows of the nested data structure contain different type values on the type column (col. 11, lines 51-56).

Regarding on claims 14, 20 and 29, Suver teaches a type value identifies a schema for a type (customers schema 401) (col. 9, lines 31-36).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 21-23 and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suver (US. Patent No. 6,016,497) in view of Bowker et al. (US. Patent No. 6,601,071).

Regarding on claims 21 and 30, Suver does not explicitly teach providing a data store in a first format; providing a mapping of the first format to a second format; receiving a query for a data stored based on the second format; and executing the generated query based on the first format against the provided data store in the first format to generate data wherein the generated data is stored in the created data

structure. However, Bowker teaches, "a system allows exchange of information by converting it to/from proprietary formats from/to XML" (col. 3, lines 43-45). This teaches the data stored in the database structure and the database structure is mapping to the XML format. In addition, the screen 200 provide the controls that allow the user to select the tables that the user wants to use in the query. The XML export tool construct the list of table by logging on to the source database using the information entered in the screen 100, and by issuing a database command to retrieve about the schema of the source database" (col. 4, lines 44-49). This teaches the query is used to extract the data in order to convert to the XML format. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was mad to modify converting the database structure into XML format of Bowker into Suver in order to provide an information database system that can be retrieved by the XML language by converting from the database structure to the XML structure.

Regarding on claims 22 and 31, Suver does not explicitly teach converting the data of the created data structure into data in the second format. However, Bowker teaches, "a system allows exchange of information by converting it to/from proprietary formats from/to XML" (col. 3, lines 43-45). This teaches the database structure convert to the XML format as the second format. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was mad to modify converting the database structure into XML format of Bowker into Suver in order to provide an

Art Unit: 2172

information database system that can be retrieved by the XML language by converting from the database structure to the XML structure.

Regarding on claims 23 and 32, Suver does not explicitly teach the second format is an XML format. However, Bowker teaches, "a system allows exchange of information by converting it to/from proprietary formats from/to XML" (col. 3, lines 43-45). This teaches XML format as the second format. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify converting the database structure into XML format of Bowker into Suver in order to provide an information database system that can be retrieved by the XML language by converting from the database structure to the XML structure.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

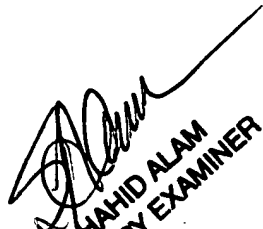
The fax numbers for the organization where this application or proceeding is assigned are as follow:

- (703) 746-7238 [After Final Communication]
- (703) 746-7239 [Official Communication]
- (703) 746-7240 [Non-Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II
2121 Crystal Drive
Arlington, VA 22202
Fourth Floor (Receptionist).

Baoquoc N. To
September 20, 2003


SHAHID ALAM
PRIMARY EXAMINER